

CLAIMS

1. A method for manufacturing a glass substrate having an uneven surface, the method comprising pressing a predetermined area on the surface of the glass substrate and etching an area including the pressed predetermined area, thereby forming unevenness on a surface,
5 wherein the glass substrate includes at least one oxide selected from the group consisting of SiO₂, B₂O₃, P₂O₅, GeO₂, As₂O₅, ZrO₂, TiO₂, SnO₂, Al₂O₃, MgO, and BeO, and has a composition wherein the content of the at least one oxide is above 90 mol %.
- 10 2. The method for manufacturing a glass substrate according to claim 1, wherein the composition contains SiO₂ as an essential component.
3. The method for manufacturing a glass substrate according to claim 2, wherein the content of SiO₂ in the composition is 74 mol % or more.
- 15 4. The method for manufacturing a glass substrate according to claim 3, wherein a value in which the content of Al₂O₃ is subtracted from a content of SiO₂ is 70 mol % or more in the composition.
5. The method for manufacturing a glass substrate according to claim 2, wherein the composition contains at least one selected from the group 20 consisting of Al₂O₃ and B₂O₃ as an essential component.
6. The method for manufacturing a glass substrate according to claim 5, wherein the content of at least one selected from the group consisting of Al₂O₃ and B₂O₃ is 5 to 20 mol % in the composition.
- 25 7. The method for manufacturing a glass substrate according to claim 5, wherein the total of contents of SiO₂, Al₂O₃, and B₂O₃ is 90 mol % or more in the composition.
8. The method for manufacturing a glass substrate according to claim 1, wherein the content of the at least one oxide is 93 to 95 mol %.
- 30 9. The method for manufacturing a glass substrate according to claim 1, wherein the composition contains 0.1 mol % or more of at least one selected from the group consisting of bivalent metal oxides and K₂O.
10. The method for manufacturing a glass substrate according to claim 1, wherein the composition is substantially free from Li₂O.
- 35 11. The method for manufacturing a glass substrate according to claim 2, wherein the glass substrate is a silica glass.
12. A glass substrate, obtained according to claim 1, having an uneven surface.